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(54) REVERSIBLE TWO COLOR THERMAL RECORDING MEDIUM AND DISPLAY MEDIUM, AND METHOD FOR FORMING OF TWO COLOR IMAGE USING SAME AND ITS ERASING METHOD

(57)Abstract:

PURPOSE: To form a high quality two color image by one time heating application by a method wherein two kinds of reversible thermal recording layers containing a reversible thermal coloring composition of a different colored state-keeping minimum cooling rate are laminated on a base material.

CONSTITUTION: Specific amounts of a developer and the first colorless or light-colored dye precursor are added into aqueous solution of an aqueous binder such as polyvinyl alcohol or the like, and mixed to prepare the first coating liquid for reversible thermal recording layer. Separately, specific amounts of the developer and a dye precursor which is different in coloring tone than the first dye precursor and has a different colored state-keeping minimum cooling rate required for obtaining a cooling material are added into aqueous solution of an aqueous binder such as polyvinyl alcohol or the like, and mixed to prepare the second coating liquid for reversible thermal recording layer. The first coating liquid for reversible thermal recording layer is applied onto a base material such as paper, a plastic film, etc., and dried to form the first reversible thermal recording layer. The second reversible thermal recording layer is laminated thereon to obtain a reversible two color thermal medium.

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